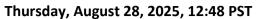
# **Daily Space Weather Summary (SUPARCO)**





Radio Blackouts			Solar Radiation Storms			Geomagnetic Storms		
-24 Hr	Current	Predicted	-24 Hr	Current	Predicted	-24 Hr	Current	Predicted
R0 – R1	R0 / R1	R1 – R2	S0	S0	SO	G0	<b>G0</b>	G0

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)								
Critical Frequency of F2 layer (foF2)			12.8 MHz					
Virtual Height of F2 layer (h`F2)			370 km					
Total Electron Content (TEC)			72 TECU					
Maximum Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distances								
Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	13.0	13.4	17.6	20.4	23.2	25.4	27.7	30.2
FOT (MHz)	11.1	11.4	15.0	17.3	19.7	21.6	23.5	25.7

Local HF conditions are normal as compared to the predicted monthly median MUF.

LOCAL GEOMAGNETIC CONDITIONS				
K-index	2 (Quiet)			
Total Field (F) (Son/Isb)	45770/50714 nT			

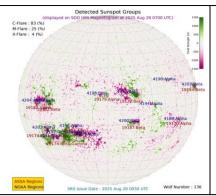
The local geomagnetic field is quiet at the moment.

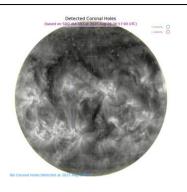
LATEST SOLAR CONDITIONS					
Sunspot Number (SN)	227				
Solar radio flux (F10.7)	226 sfu				
Solar wind speed	385.5 km/s (varied in the past 24 hrs between 335 & 451 km/s)				
Solar x-ray flares	C3.0 (max flare in the past 24 hrs (C9, 1250 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+6.3 nT (varied in the past 12 hrs between +3.2 nT & +6.56 nT) -0.77 nT (varied in the past 12 hrs between -4.36 nT & +2.48 nT)				
Solar conditions are at low to moderate levels with background X-ray flux at C-class level.					

## Daily Sun: 28 August 2025

There is one active region AR4197 present on the Sun capable of producing strong M and X-class solar flares having chances of 25% and 4% respectively.

No Coronal Hole (CH) is detected on the solar disk.





#### **DISCUSSION:**

Solar activity is expected to be at low to moderate levels. In case of M/X-class solar flares, minor to moderate level radio blackouts may be observed. Low solar wind speed and quiet geomagnetic activity is expected. HF conditions are normal.

## **Credits:**

Solar conditions courtesy to SOHO, DSCOVR and GOES-16 missions.

NOAA SWPC is acknowledged for solar radio flux conditions.

Korean Space Weather Centre is acknowledged for solar disk and coronal hole images.

Sonmiani (SON): 25.2° N, 66.75° E Islamabad (ISB): 33.7° N, 73.13° E

# RSG SCALES

	Radio Blackouts							
Minor	Minor Moderate R1 R2		Severe R4	Extreme R5				
- KI								
	Solar Radiation Storms							
Minor	Moderate	Strong	Severe	Extreme				
<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>				
	Geomagnetic Storms							
Minor	Ainor Moderate		Severe	Extreme				
G1	G2	G3	G4	<b>G5</b>				